



May 1989



June 1989



SUN	MON	TUE	WED	THU	FRI	SAT
	1	2 8BIT SIG MEETS	3	4	5	6 SWAP MEET 1 > 5
7	8	9	10	11	12	13
14 SEND MOM ROSE	15	16	17	18	19	20
21	22	23	24	25 ST SIG MEETS	26	27
28	29 DAY 2 REM- EMBER	30	31			

PIKES PEEK POKE ATARI COMPUTER ENTHUSIASTS

T

M 665

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6 8BIT SIG MEETS	7	8	9	10
11	12	13	14 FLAG DAY	15	16	17
18 DAD'S DAY	19	20	21	22 ST SIG MEETS	23	24
25	26	27	28	29	30	

MAY/JUNE

VOL5 NO3

P3ACE is an independent organization of computer enthusiasts. We are not in any way a part of Atari, inc.

The Group's objective is to promote interest in and use of Atari Computers for the benefit of the users.

P3ACE maintains a library of public domain software, documentation, publications, and newsletters exchanged with other users groups. These are available for check-out by P3ACE members.

P3ACE assumes no liability for program accuracy or information published in the P3ACE Newsletter. Opinions expressed in the P3ACE Newsletter are those of the individual authors, not necessarily those of P3ACE, its officers, or its staff.

P3ACE membership dues are \$15.00 per years. We invite anyone interested in the group to visit our 8-bit meetings held at 7:00pm the first Wednesday of each month or our 16-bit meetings held at 7:00pm the fourth Thursday of the month. Both meetings are held at the Rustic Hills Consumer Center. It's locate at the southeast corner of Academy and Palmer Park, in the Rustic Hills Mall.

The P3ACE Newsletter is published bimonthly. It is distributed to P3ACE members as well as other Computer User Groups on an exchange basis. Material in this publication may be reproduced without permission. Credit must be given to P3ACE with the date of the issue. The exception is articles reprinted from other clubs.

P3ACE members may place four line ads (150 characters) of a noncommercial nature free of charge. Commercial advertisements will be accepted at a per

issue rate of \$30.00 per full page, \$15.00 for one half page, or \$10.00 for one quarter page. Business cards will be accepted at \$5.00 per issue. Send a copy of the advertisement and a check to P3ACE, P.O. Box 17779, Colorado Springs, CO 80935. Call 550-1410 OR 495-0624 for more information.

OUR OFFICERS

President	David N. Koster	550-1410
Vice Presidents		
16-Bit	Jerry Sundee	574-0005
8-Bit	John Sandgren	599-5933
Treasurer/Secretary		
	Chris Smith	495-0624
Newsletter Editors		
16-Bit	William C. Bates	390-7722
8-Bit	Jim Cox	488-0541
Librarians		
16-Bit	Bob Vixie	528-6847
8-Bit	Howard Adams	597-2837

INSIDE THIS ISSUE

Well?	Pg 1
Treasurer's Report	Pg 2
8-bit SIG sets record	Pg 2
Wanted Instructor of Swahili	Pg 2
8-bit tid bits	Pg 3
Antic back issues worth having	Pg 3
Atari 8-bit to Tandy file transfer	Pg 4
Word up	Pg 4
Neoept's Gem for Gem WP	Pg 4
The not complelely silient butler	Pg 5
XL/Xe cursor keys	Pg 5
XL/XE cursor keys cont.	Pg 6
Computer's shows and swap meets	Pg 6

WELL...?

Dave Koster

Hi again everyone, hope you are weathering well the last bits of winter hanging around to torment us!

First, a WELCOME! to our newest members and their families, like Glenn Okuma, Dan Wood, and Chris Hopping. Likewise a welcome back for the host of membership renewals, like me and Ed for instance. We've also had a number of visitors at meetings and a like number of interested callers. I'd have to check with Chris Smith to be sure, but it looks like were at about 60 members. Now's the time to renew your membership!

As usual, lots of news this issue:

- Swap Meet on Saturday, May 6th, from 1pm to 5pm at the Rustic Hills Mall. No charge to members who want bring their computer and electronic junk in to sell. Everyone's welcome to come and browse.

- Jim Cox succeeded in getting Childrens' Palace to put a sign for P3ACE near their XEGS display, quite an achievement! We'll have P3ACE business cards to hand around by May, which will really help our PR efforts.

- Bob Vixie has completely rejuvenated the ST PD library, check it out at Renaissance soon. Howard and I are working on something similar for the XL/XE library, we'll let you know when it's ready.

- We recently received flyers and announcements from IMAGEN on

the ULTRASCRIPT ST postscript emulator and from a local firm, DPMA, on computer seminars they're offering. We also received a letter from Sig Hartmann of Atari Corp describing their latest efforts to advertise their (and our!) computers in the US. All these are with the newsletter file for your reading enjoyment.

- Our area on the V\ictor V\ector BBS has been totally revamped thanks to Gene Daigle (the VV sysop) and Ed Fletcher/Chris Smith of P3ACE. It looks super! Modems are cheap these days, there's little excuse for depriving yourself of the fun of BBS'ing! We'll help! P3ACE recently donated bucks to Gene to offset our use of the board and we're asking our VV users to replace those funds. If you use the board, please donate what you can!

- Your officers had an impromptu meeting at Giovanni's Pizza to scope the place out as a possible alternate meeting location. The owner's real friendly and would whip up a special deal for us like his \$2.99 AYCE pizza on Mondays. Not to mention (too late) the BIG screen TV!

That's the news, now just a short PS. As most of you know, the group subscribes to most of the better Atari-oriented magazines. This is a substantial benefit for our members, but it has the drawback of perhaps discouraging members from subscribing on their own. PLEASE support Atari publications like "Antic" and "ANALOG", either thru subscribing or buying an occasional magazine off-the-rack. A couple of ST-oriented mags have already gone under, including "Compute! ST", my favorite. Money talks, and everytime you buy Atari stuff like magazines and software you're placing a vote. If Atari

RENAISSANCE COMPUTERWARE

1817 D NORTH UNION BLVD.

COLO SPRINGS, CO

634 - 3051

**Atari 8 bit and ST software available
Special orders taken on non-stocked items**

Store Hours

Monday - Friday 9:30 to 6:00

Saturday 9:30 to 5:00

See us for your special cable and accessory needs!

computers don't get enough votes, we (as Atari users) lose!
So get out there and spend! (...like I needed to ask!)

...and come to a darned meeting, they've been great!

TREASURER'S REPORT

Chris Smith

The current balance of the P3ACE treasury is \$507.69, including cash on hand. Recent purchases are 200 5-1/4" disks for use in the club 8-bit library and for sale to members, 50 3-1/2" disks for the club 16-bit library and the disk of the month program, and two storage case, for a total of \$113.14. The last newsletter cost \$96.50 to publish and mail. Oh yes! Our P3ACE President, Dave Koster, is to be commended for renewing his membership for TWO years, strengthening our financial position (while hedging is position against inflationary pressures on club dues). (Actually, I can never remember if it's "fiveteen" or "fifteen", so I sidestepped the problem when filling out the check. Very Embarrassing. - dkos)

8-BIT SIG SETS RECORD & ISSUES CHALLENGE.

Jim Cox

uring the 4 April meeting, our first on the new night, Tuesday, the demonstration focused on mating the Tandy 100 Laptop portable with the Atari 8-bit computer line. We saw a demonstration of uploading from the Laptop, a portable keyboard in essence, to the P3ACE 800XL and saving the file to disk for further editing, printing etc. Two Tandy 100s were passed throughout the crowd -- there were 16 people in attendance -- and all were invited to type a comment in reply to the question "what I like about P3ACE" or offering a technical tip of possible interest to members. The data was then transferred using an Atari 850 interface and Keith Ledbetter's 850 version of Express, the best public domain communications program available for the 8-bit. The following are a few inputs from some of the folks in attendance:

"I like the ability to get public domain software whenever I want to."

"I like the ability to get info from other members on problems."

"Please keep the public domain software library going for the new members."

"If you use shareware Please send the author some money!!"

"Hey! I'm new at this and need as much help as possible. Just lucky I walked into this meeting."

"Now is the time for all good Atari 8-bit owners to join P3ACE."

"Install dedicated cursor keys on your Atari 130XE now! It's cheap and easy!"

And that is just a sample! I'd like to point out that we probably set a record for the number of contributors to the Newsletter from among 8-bit SIG members and guests. So for you 16 bit folks, we challenge you to top the 8-bit effort!

WANTED: Instructor of Swahili
Rich Johnson

Learning the Bantu language of East Africa is not at all what any of us had in mind -- nor was that the eventual outcome. This was just symbolic of the helpless, useless feeling we all experienced when booting up P3ACE library disks without the step-by-step instructions for de-arc'ing. Bombs were the result.

Bob Vixie identified five functional illiterates, in this area of "de-arc'ing" library disks, and the related frustration that made us think that an IBM PC, or Clone, may have been a better choice after all. We could all get the desired results from commercial software. (Do you really get what you pay for?) In fact, we could demonstrate proficiency with these programs. At Bob's invitation, the five of us gathered in his home, around his ST and his acquired experience, for 5 Tuesday nights in a row during January and February. The result for all of us was a reaffirmation that an ST was still the computer alternative that we had originally thought it was.

Just as with learning a foreign language, certain fundamentals needed to be addressed, allowing us to direct the ST to "de-arc" and opening the wide world of public domain software, to supplement the tasks we envisioned being capable of performing.

Between weekly sessions we practiced not only the de-arc'ing function, but ventured into the library software thus made available to us. We talked about ram disks, and were shown their practical applications. There was even a session on creating our own custom ram disk. Other topics included creating "files" and the orderly storage of those files into "folders". We also looked at games, accessories, word processing, and all the other categories of software available through the library.

Bob didn't leave us stranded with only the capability of "de-arc'ing" but also reasoned us through the logic and application of "arc'ing" data of our own, to avoid being overrun by stacks and stacks of 3 1/2 inch disks.

For those of you who may feel a bit bewildered by the "Greek" or "Swahili" you have encountered with the library disks, Bob anticipates offering a second tutoring session within the next few weeks. I would encourage those of you so inclined, to attend the next P3ACE meeting and talk to Bob regarding this session.

On behalf of my fellow tutees and myself, thank you, Bob Vixie, for your patience and understanding in our becoming more functionally literate in the use of our ST's.

8-BIT TIDBITS

John Sandgren, 599-5933

The 8-bit SIG kicked off the 1989 season with its first meeting of the year on the 1st of February. Attendance was slim, and not nearly representative of the 30 or more registered 8-bit members in P3ACE, but weather was most definitely a contributing factor. The new officers introduced themselves, and I talked a little bit about what I had planned for the SIG for the first part of the year. March 1st saw our second meeting for the year, and our last Wednesday. The turnout was good -- a few members renewed their memberships, and we gained a few new members. Ed Fletcher gave a very good presentation on several archiving programs, and I managed to give away a few disk-of-the-month and commercial software prizes. In April the 8-bit SIG forged new ground by changing its meetings to the first Tuesday of the month. Jim Cox, our newly elected, and soon to be lost, 8-bit Newsletter Editor, and his son Ted demonstrated how to interface the Tandy 100 laptop to the Atari computer.

For the May 2nd meeting I'm looking for an enthusiastic member to demonstrate his/her favorite DOS. I'm also looking for a volunteer to pick up Jim Cox's job as 8-bit editor. Also in May, on the 6th to be exact, P3ACE is holding a swap meet at Rustic Hills Mall from 1 to 5 PM. If you have any hardware or software to trade, or anything else to trade, come on out! June looks like a good month to look at Modems and/or bulletin boards. Any volunteers? July is open -- I'm taking suggestions for both a topic and preference for what night to meet, since the normal meeting night falls on the 4th.

I really want to make our SIG work for us. We're all in this to get the most out of our 8-bit Atari computers. There's a wealth of knowledge and experience we can share with each other if we take the right approach. 8-bit members, please pass on your ideas. Now that Spring is on the way, it's just the right time to renew any memberships that have expired. Check your cards (or your newsletter mailing label! - ed)! Til next issue.

ANTIC - BACK ISSUES WORTH HAVING!

Jim Cox

How often have you really enjoyed a particular issue of a favorite computer magazine? Oh, I know, if you listen to the publisher every issue is great. But in all candor, the newer issues of ANTIC, at least, seem to lack the impact of some of the older ones. Do you have a few old favorites? I sure do! For some of the newer members who haven't ever seen some of the classics, and for a few old members who had forgotten the gems back in those well worn pages, I thought I'd share my views.

My favorite of all times is the November 1987 ANTIC! It contained the best of the winning programs from the 1987 ANTIC programming contest and it was terrific! There was Critical-Path Project Manager, a first class effort by David Schwener, that introduced the 8-bit Atari to the Critical Path Method (CPM) of project management. Ever worked a big event or project at home or work and felt you just couldn't get a handle on it? Then this is a super program for you. You can do weddings, computer shows, and who knows what else. If you are into code, this basic program is one of the cleanest ever

Atari ST and Atari 8-Bit Hardware and Software at Discount Prices!

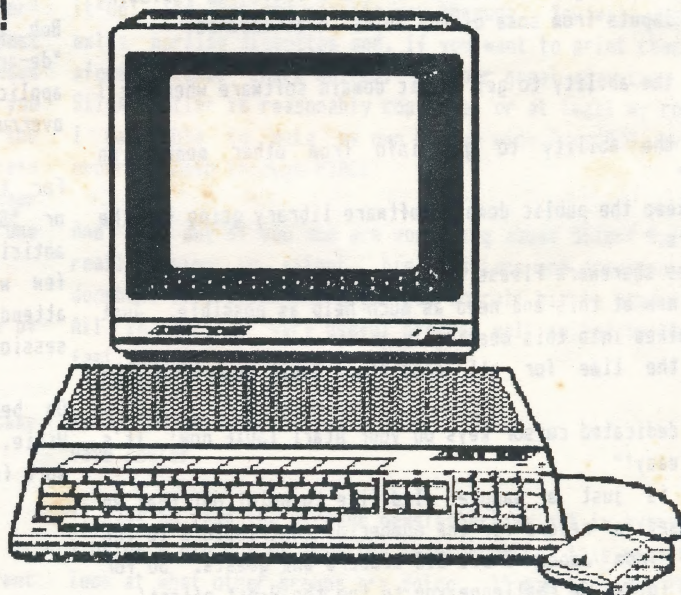
ATARI ST SPECIALS!

PAGESTREAM	\$129.95
HISOFT BASIC	49.95
WORDUP!	54.95
FONTZ!	24.95

COMPUTER EXPRESS!

212 North Chelton Road
Colorado Springs, CO 80909

473-1618



published in ANTIC or any other magazine for the 8-bit. Another useful program was WYSIWYG -- what you see is what you get -- a neat program for printing audio cassette labels for all those audio cassette copies that seem to grow in numbers like hangars in a closet, without any clue as to what they contain. Chet Walters wrote this simple tool that really answers a practical need. Yet another terrific program in the same issue was Al Filskov's Bibliography Master. This through bibliography preparation without pain or strain, producing an excellent product. It does all the underlining, punctuation and spacing, then alphabetizes the result for you and formats it for printing on an Epson compatible or Star printer. Both my college students have copies at school! All in all the November 87 issue is my all-time favorite. And I've not even mentioned the Charles Cherry article on laptop to Atari interface that drove me to buy a Tandy portable 100 laptop and learn to use it as a portable "Atari" keyboard.

Perhaps the next best ANTIC was the following issue -- December 1987. It contained a Print Shop envelope maker. But the real claim to fame for this issue was the disk bonus program, ANTIC Publisher, a first class effort and fun program that is of commercial quality. It certainly is well worth the disk price. Furthermore, it is right there in the P3ACE Library at Renaissance Computerware waiting to be signed out!

Finally, one of the best magazine issues published this year is January 1989, well worth having not so much for the programs it contains but for the Annual Shoppers Guide. It lists more than 275 8-bit products and 65 manufacturers and publishers with addresses and phone numbers. The Mighty Lister program by Dr Phillip Bate also included converts the Mighty Mailer program published in September 1987 into an inventory database. There are many more good issues, but in my view these were the best. Do you have a favorite? Why not tell us which one and why! There are readers out there who are interested. (If you have an interest in any of the issues mentioned, write Antic and get a backissue! - ed)

ATARI 8-BIT TO TANDY LAPTOP FILE TRANSFER PROCEDURE

Jim & Ted Cox

At the April 4th 8-bit SIG meeting my son Ted and I demonstrated transfer of data from a Tandy CPM portable laptop computer to an Atari 8-bit machine. For those who might be interested in the procedure, you will need an Atari 850 Interface, a cable (RS232 D25 to D9), and Keith Ledbetter's 850 Express. A word of caution: for some reason you cannot upload from the Atari back to the Tandy using this approach.

To link the Tandy 100 and Atari 8 bit machine do the following:

1. Connect 850 to Tandy 100 using cable from end port nearest power supply plug on 850
2. Turn on 850, then Tandy 100, then boot up Atari 8-bit machine with Express 850 with OPTION depressed.
3. Set for 2400 baud operation as follows:
 - a. Tandy 100 to telcom, direct, and originate.

- b. Atari to A for ASCII, B for 2400 baud, even parity, full duplex
- c. Tandy to 68N1E STAT
4. Configure 850 Express as follows:
 - a. ESCape to connect
 - b. OPTION to capture to buffer
5. Tandy to TERMINAL mode, UP for upload, and file designator, return on WIDTH to start transfer
6. When transfer is complete or buffer is full, pause with F6 on Tandy
7. Return to 850 Express menu by depressing START, disconnecting and then type W for save buffer to disk, provide file designator and return to save.
8. Use ? to view transferred and saved file for accuracy of transfer.

We hope this procedure will help. If you have a question give us a call...soon as we leave for Germany in late July after which the call will be loooong distance!

WORD UP - NEOCEPT'S GEM FOR GEM WORD PROCESSING

Chris Smith

It's traditional for a reviewer of word processors to claim to be using it to write the review. I suppose I should 'fess up and admit at this point that I am using 1ST-WORD to write this review. That shouldn't be taken as evidence against Neoccept's WORD UP, though, for it is a gem of a program for GEM word processing. That's a key point, by the way. WORD UP is a program which fully uses GEM features as they were intended, which is a powerful proposition. This article is doomed to become a mere ASCII text file, to be sent by modem to the editor and ultimately incorporated into a desktop publishing data file. Using WORD UP to produce ASCII files is classic overkill; it's a task better suited for the nominally free 1ST-WORD, or Micro-Emacs, or what-have-you.

WORD UP isn't free. It's listed at \$79.95 currently but can be found in the \$50 to \$60 range. A lot is included. The manual is 280+ pages, in a ring binder, and is packaged with three disks and a warranty card. (I mention the warranty card, because Neoccept seems to have a very enlightened policy about bug fixes - I received a disk with a fix of another Neoccept program on it that I had registered with them, and it was free and unsolicited -- no need to send in the old disk, etc. If they don't watch out, they could give software publishers a good name.) The disks contain the program, GEM font files, GDOS and "assign.sys" files, printer drivers and a tutorial.

WORD-UP is a full-featured word processor that supports mail-merge, multiple fonts, graphics and pictures, super- and sub-scripts in addition to the usual functions of a word processor. Since WORD UP is a true GEM program, use of the mouse is fully supported. The most commonly used mouse functions also have keyboard equivalents. There are some neat extensions. For example, when you search for a word, you can specify that only boldface or italic variants of it are to be found. Advanced features are also included. The "Master

Pages" feature allows documents to be standardized. For example, letterhead paper with text and graphic effects can be created with master pages. Address and date placement, font selection and so on can be specified so that letters take on a uniform look. With different master pages, you can formalize your business letters but give an informal look to personal letters.

It would be nice if WORD UP had a few more features. I would like to see Neocrypt add a page preview feature (to show a small facsimile image of the way a page will appear when formatted) as well as a multiple dictionary spelling checker. Still, it's hard to beat the features to price ratio of WORD UP if you need the features of a GEM based word processor.

ATARI'S NOT COMPLETELY "SILENT BUTLER" -- A REVIEW

Jim Cox

I've looked at a lot of accounting programs since we first bought an Atari 8-bit computer, and they almost all seem to share the same fault -- they are a "bear" to set up. Atari's The Bookkeeper is a near professional system for the period in which it was written, but with an MBA I still struggled to get all the accounts set up and organized. Furthermore, it required almost daily use to remain familiar with its system of accounts and coding, not to mention all the disk swaps. I guess that's why I gave it up. VisiCalc was my next stop. It is far more suited to my needs and I must admit it is far more flexible than any other accounting program, but it definitely isn't single entry. Likewise, it shares the fault of The Bookkeeper and others -- set up requires lots of work!

I guess that's why I finally bought Silent Butler. And I must admit that it is my favorite for its simplicity and tutorial approach. It is divided into two general areas called (for no logical reason I have figured out) Bookmark One, nine daily routine services, and Bookmark Two, nine additional, less routine services. After booting the program disk, you are provided an on-screen narrative dialogue from your "butler" who offers services and asks questions necessary to post required records. The most common computer operator responses are "Y" for yes, "N" for no, and "RETURN." After asking you for the year, month and day, the butler leads you through the Bookmark One tasks one at a time. If you need only to address a specific task you can scroll through Bookmark One rather quickly or bypass it entirely for the second. Bookmark One tasks include the following:

- 1) Change in Savings and Checking - for set up and update of account data
- 2) Birthdays/Anniversaries/Reminders
- 3) Fixed bills - those that recur every month in the same amount
- 4) Savings accounts
- 5) Checking Accounts
- 6) Other Bills - recurring bills which vary in amount
- 7) Current Reminders - from (2) above but for the current month

- 8) Current Bills - bill paying/tracking utility
- 9) Bookmark Two - allows exit to Bookmark Two
- 0) Finish (or Retire to Quarters)

Using the numbers above you can jump from one specific service to another, and from one Bookmark to the other.

Memory space is a little limited, but for family finances, the size limits are reasonable. Silent Butler accommodates three savings accounts with the number of entries limited to 231, 182, and 168 respectively. Three checking accounts are also accommodated with memory limits in total annual entries at 1330, 637 and 315 respectively. The check print feature -- which also requires a special plastic check holder which must be mail ordered -- only works for checking account A. You must manually write checks from accounts B and C. This isn't a major problem for most families with a single checking account, but it does make Silent Butler less suitable for a small business. Checking also allows you to identify each check by Income and Expense category using the normal income tax categories, but you cannot add categories to tailor them to your needs as you can in more sophisticated programs.

Bookmark Two featured services are:

- 1) Bookmark One - allows exit to Bookmark One
- 2) Checking Accounts
- 3) Reconcile Checkbooks
- 4) Savings Account Statements Review
- 5) Checking Account Statements Review
- 6) Accounts Payable Review
- 7) Tax Summary
- 8) Print Special Summaries
- 9) Change of Computer Printer
- 0) Finish

While Silent Butler is not a full scale bookkeeping program, it is ideal for small family accounting needs. It is simple and you won't forget between sessions how to use it or how you set it up! The "butler" prompts you through. You will need a few extra working diskettes and, if you want to print checks, the aforementioned check holder. Another great advantage is that Silent Butler is reasonably copyable, or at least my copy was. I was able to make my own backup with SuperDOS, available under license through P3ACE!

And for any of you who are wondering about Silent Butler not really being so silent, his questions are accompanied by a doorbell like chime one might use to call him to your service. All in all, a very useful program well suited to the small family user.

XL/XE CURSOR KEYS

Dave Koster

It pays to read the excnage newsletters we get in every month! I bring a big box of them the every meeting, take some time to look at what other groups are doing. It has happened that our articles get picked up by other groups, just as we sometimes

(although not lately) reprint articles from other newsletters. you close everything up.

I told you that story to tell you this one. The CLEVELAND ACE NEWSLETTER from Cleveland ACE reprinted a reprint I know you'll love on how to install dedicated cursor keys on a XL/XE. They work great! Roger Tolbet of Ozak, AL discovered the method, described it in a letter to CURRENT NOTES, and Charles Cherry fleshed out the mod in the August 1987 issue of ABACUS. The mod uses the fact that the XL/XE operating system still has the code to support the programmable function keys that were on the 1200XL.

Here's how I installed them in my 320XE:

1. Acquire four small normally open momentary contact single pole single throw switches. The switches will have two leads. Radio Shack has plenty, OEM Parts on Nevada near Filmore is cheaper (I had some old flat keyboard keys). You also need four 10 inch pieces of wire.

2. Unplug everything, ground yourself, open the case (mine has zippers), unplug the keyboard GENTLY, untwist the tabs and remove the RF shield.

3. Locate two integrated circuits on the XL/XE circuit board. They are near the keyboard connector, have 16 pins, and have the numbers "4051" on them somewhere. (These chips translate keypresses into keycodes the computer can interpret.) In an XL the IC closest to the front of the computer is U25, behind it is U24. The numbers are different (and unknown to me) in my XE, but the orientation is the same, so we'll call the XE chips U25 and U24, too.

4. Figure out the IC pin numbers for U25 and U24. Looking at the TOP of the chip, with the end notch or dot on the chip to the left, the pins are numbered counterclockwise with pin 1 at the left bottom corner.

5. Strip and tin both ends of your four wires. CAREFULLY solder one wire to each of the following pins: U24 (back), pins 1 and 12; U25 (front), pins 4 and 5. Label the loose ends with the pin numbers.

6. Time to drill. Mount your switches on the top half of the plastic case, somewhere. Check the layout and clearance carefully! C. Cherry mounted them in a diamond pattern above the console keys on the XL and on the SIDE (?) of his XE. I mounted my flat keys on a piece of perf board, cut a BIG hole in the top right "triangle" of the XE to fit the key layout, then mounted the board on the underside of the case so the keys are sorta flush with the top. Use your imagination, but plan well.

7. Connect to switches according to the chart below. It doesn't matter which switch lead has which wire attached. Run a small jumper wire to the second switch requiring that connection, or "daisychain" the single wire. Test it before

U25, pin4 goes to UP switch and DOWN switch
U25, pin5 goes to LEFT and RIGHT
U24, pin12 goes to DOWN and RIGHT
U24, pin1 goes to UP and LEFT

Check "Mapping the Atari" by Ian Chadwick for key programming information. If you hold down the SHIFT or CTRL keys when you press the new cursor keys you get even more functions. Here's a summary of the default key functions (other than up/down/right/left):

With SHIFT:

UP = UPPER LEFT CORNER
DOWN = LOWER LEFT CORNER
LEFT = START OF LINE
RIGHT = END OF LINE

With CONTROL:

UP = ENABLE/DISABLE KEYBOARD
DOWN = ENABLE/DISABLE SCREEN DISPLAY
LEFT = ENABLE/DISABLE AUDIBLE KEY CLICK
RIGHT = TOGGLE GRAPHICS/INTERNATIONAL CHARACTERS

Thanks to Roger, Charles, and CLEVELAND ACE!
dave koster

COMPUTER SHOWS AND SWAP MEETS -- PAST AND FUTURE!

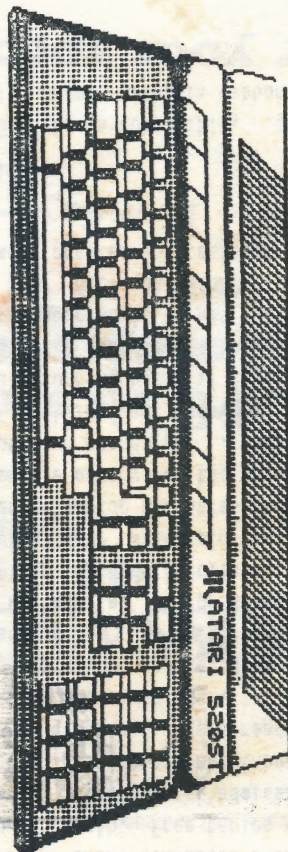
Jim Cox

R. L. Computer shows conducted a show on Sunday, 9 April at the Holiday Inn North. Free tables were available from 10:00 AM to 3:45 PM with general admission at \$2.00 per person. They contacted Ed Fletcher about one week in advance as they wanted our user group and others represented. According to Ed who attended for about an hour, the focus was on IBM PCs with lots of boards, older models, disk drives, hard drives and a few odds and ends. He said for IBM hackers the show might have been worthwhile. As for Atari folks, he said there was only one Atari machine on display -- a 1040 ST -- which was advertised for \$799 with color monitor. Ed also noted they had a number of laptop portables including an NEC, a Sharp -- with considerable memory for the price -- and another Japanese model of unknown brand. R. L. Computer shows appears in the business of putting on computer shows. They intend to do shows on a recurring basis if there is ongoing interest. Ed noted only about a dozen folks looking at the wares during the 10:30 to 11:30 hour while he was there. Bottom line is attend the P3ACE SWAP MEET on SATURDAY, 6 May from 1 to 5 PM. It will be of much greater interest and value to you!

PRINTER FOR SALE!

Legend 808, Epson-compatible, graphics capable (great w/PrintShop), comes with six ribbons. *\$75* John Sandgren, 599-5933

ATARI COMPUTER USERS!



Your local ATARI users' group P3 ATARI COMPUTER ENTHUSIASTS (P3ACE)

has much to offer you:

- Large Public Domain software library!
- Monthly meetings featuring tutorials, reviews of the latest hardware and software, news, gossip, and fun!
- Bimonthly newsletter!
- Classes for beginners and experts alike!

Join today!

FOR INFORMATION CALL:

Dave Koster, 550-1410

Chris Smith, 495-0624

P3ACE
P.O. BOX 17779
COLORADO SPRINGS, CO
80935-7779

(NEWSLETTER EXCHANGE:
NOTE ADDRESS CHANGE!)



WE MEET
THE
CHALLENGE



Shamus 591-8673

CLARENCE
CARL 632-2194

RICK REASER

COLORADO SPRINGS, CO
80917